

## Recombinant Human CHST7, His-tagged

Cat. No. CHST7-11232H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human CHST7 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.

**Species** Human

**Source** E.coli

**ProteinLength** 137-486a.a.

**Description** This gene belongs to the sulfotransferase gene family. Sulfotransferases generate sulfated glycosaminoglycan (GAG) moities during chondroitin sulfate biosynthesis. They create considerable structural diversity among chondroitin sulfates by transferring sulfate with remarkable specificity for the underlying oligosaccharide substrate. This gene product mainly transfers sulfate to N-acetylgalactosamine. The regulated expression of each member of this gene family may be an important determinant of sulfated GAGs expression and the associated function of chondroitin sulfates as regulators of many biologic processes. This gene is part of a gene cluster on chromosome Xp11.23.

**Storage** The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

**Storage Buffer** 1M PBS (58mM Na<sub>2</sub>HPO<sub>4</sub>, 17mM NaH<sub>2</sub>PO<sub>4</sub>, 68mM NaCl, pH8. ) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

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## GENE INFORMATION

**Gene Name** CHST7 carbohydrate (N-acetylglucosamine 6-O) sulfotransferase 7 [ Homo sapiens ]

**Official Symbol** CHST7

**Synonyms** 6 O sulfotransferase 5; C6ST 2; C6ST2; Carbohydrate sulfotransferase 7; Chondroitin 6 sulfotransferase 2; CHST 7; CHST7 carbohydrate (N-acetylglucosamine 6-O) sulfotransferase 7; Galactose/N acetylglucosamine/N acetylglucosamine 6 O sulfotransferase 5; GlcNAc6ST 4; Gn6st-4; GST 5; N acetylglucosamine 6 O sulfotransferase 1;

**Gene ID** 56548

**mRNA Refseq** NM\_019886.2

**Protein Refseq** NP\_063939.2

**MIM** 300375

**UniProt ID** Q9NS84

**Chromosome Location** Xp11.23

**Pathway** Chondroitin sulfate biosynthesis, organism-specific biosystem; Chondroitin sulfate/dermatan sulfate metabolism, organism-specific biosystem; Disease, organism-specific biosystem; Glycosaminoglycan biosynthesis - chondroitin sulfate, organism-specific biosystem; Glycosaminoglycan biosynthesis - chondroitin sulfate, conserved biosystem; Glycosaminoglycan metabolism, organism-specific biosystem; MPS I - Hurler syndrome, organism-specific biosystem;

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**Function**

N-acetylglucosamine 6-O-sulfotransferase activity; chondroitin 6-sulfotransferase activity;

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